

**AMENDMENTS TO THE ABSTRACT**

Please replace the abstract in the application as filed with a replacement abstract having the following amendment. Pursuant to 37 C.F.R. § 1.72 a new abstract is submitted herewith.

--Microfabricated heaters for microfluidic devices for lab-on-a-chip applications employing ~~comprising~~ channels having ~~using~~ deposited therein conductors such as sputtered metal, alloys, polymers and composites thereof; or conductors prepared by ion implantation, and methods for fabricating same are disclosed. Rapid heating to temperatures above 360 °C and rapid cooling is possible using these microheaters. Repeated heating does not lead to the microheater devices weakening or burning out. Preferred embodiments include application of spin-on-glass on the microheater surface.--